

Point Defects in Metals I: Introduction to the Theory (Springer Tracts in Modern Physics)

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Springer Tracts In Modern Physics 81 Point Defects In Metals I Introduction To The Theory

A.R. Bishop, T. Schneider



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Point Defects in Metals I G. Leibfried, N. Breuer, 2006-04-11 *Point Defects in Metals II*, 2006-04-11 *Point Defects in Semiconductors I* M. Lannoo, 2012-12-06 From its early beginning before the war the field of semiconductors has developed as a classical example where the standard approximations of band theory can be safely used to study its interesting electronic properties Thus in these covalent crystals the electronic structure is only weakly coupled with the atomic vibrations one electron Bloch functions can be used and their energy bands can be accurately computed in the neighborhood of the energy gap between the valence and conduction bands and p doping can be obtained by introducing substitutional impurities which only introduce shallow donors and acceptors and can be studied by an effective mass weak scattering description Yet even at the beginning it was known from luminescence studies that these simple concepts failed to describe the various deep levels introduced near the middle of the energy gap by strong localized imperfections These imperfections not only include some interstitial and many substitutional atoms but also broken bonds associated with surfaces and interfaces dislocation cores and vacancies i.e. vacant lattice sites in the crystal In all these cases the electronic structure can be strongly correlated with the details of the atomic structure and the atomic motion Because these deep levels are strongly localised electron-electron correlations can also play a significant role and any weak perturbation treatment from the perfect crystal structure obviously fails Thus approximate strong coupling techniques must often be used in line with a more chemical description of bonding **Springer Tracts in Modern Physics**, 1980 **Point Defects in Metals I** G. Leibfried, N. Breuer, 1978-03-01 [Point Defects in Metals](#) Günther Leibfried, 1978 **Introduction To Elasticity Theory For Crystal Defects (Second Edition)** Robert W Balluffi, 2016-08-25 The book presents a unified and self-sufficient and reader-friendly introduction to the anisotropic elasticity theory necessary to model a wide range of point-line-planar and volume-type crystal defects e.g. vacancies dislocations interfaces inhomogeneities and inclusions The necessary elasticity theory is first developed along with basic methods for obtaining solutions This is followed by a detailed treatment of each defect type Included are analyses of their elastic fields and energies their interactions with imposed stresses and image stresses and the interactions that occur between them all employing the basic methods introduced earlier All results are derived in full with intermediate steps shown and it can be shown is avoided A particular effort is made to describe and compare different methods of solving important problems Numerous exercises with solutions are provided to strengthen the reader's understanding and extend the immediate text In the 2nd edition an additional chapter has been added which treats the important topic of the self-forces that are experienced by defects that are extended in more than one dimension A considerable number of exercises have been added which expand the scope of the book and furnish further insights Numerous sections of the book have been rewritten to provide additional clarity and scope The major aim of the book is to provide in one place a unique and complete introduction to the anisotropic theory of elasticity for defects written in a manner

suitable for both students and professionals **Solid-State Physics** Harald Ibach, Hans Lüth, 2012-12-06 In recent decades solid state physics has seen many dramatic new developments and has become one of the largest independent branches of physics It has simultaneously expanded into many new areas playing a vital role in fields that were once the domain of the engineering and chemical sciences A consequence of this explosive development is that no single university lecturer can today be expected to have a detailed knowledge of all aspects of this vast subject likewise it is impossible to conceive of a course that could offer students a comprehensive understanding of the entire discipline and its many applications In view of this situation it is particularly valuable to have a textbook that gives a concise account of the essential elements of the physics of solids In this book the fundamental aspects of solid state physics are presented according to the scheme Chemical bonding structure lattice dynamics and electronic properties We believe that this sequence is the optimum choice for tutorial purposes It enables the more difficult concepts to be introduced at a point where a basic understanding of fundamental ideas has already been achieved through the study of simple models and examples In addition to this carefully structured exposition of classical solid state theory based on the periodic solid and the one electron approximation the book also includes comprehensive descriptions of the most active areas in modern research Magnetism superconductivity and semiconductor physics Jets of Hadrons Werner Hofmann, 2006-04-11 **Electronic Structure of Noble Metals and Polariton-Mediated Light Scattering** B. Bendow, 2006-04-11 **Ordered Intermetallics** C.T. Liu, R.W. Cahn, G. Sauthoff, 2012-12-06 Ordered intermetallics constitute a unique class of metallic materials which may be developed as new generation materials for structural use at high temperatures in hostile environments At present there is a worldwide interest in intermetallics and extensive efforts have been devoted to intermetallic research and development in the U S Japan European countries and other nations As a result significant advances have been made in all areas of intermetallic research This NATO Advanced Workshop on ordered intermetallics 1 reviews the recent progress and 2 assesses the future direction of intermetallic research in the areas of electronic structure and phase stability deformation and fracture and high temperature properties The book is divided into six parts 1 Electronic Structure and Phase Stability 2 Deformation and Dislocation Structures 3 Ductility and Fracture 4 Kinetic Processes and Creep Behavior 5 Research Programs and Highlights and 6 Assessment of Current Research and Recommendation for Future Work The first four parts review the recent advances in the three focus areas The fifth part provides highlights of the intermetallic research under major programs and in different institutes and countries The last part provides a forum for the discussion of research areas for future studies Giant Resonance Phenomena in Intermediate Energy Nuclear Reactions F. Cannata, H. Überall, 2006-01-26 Modern Crystallography 2 Boris K. Vainshtein, Vladimir M. Fridkin, Vladimir L. Indenbom, 2012-12-06 Structure of Crystals describes the ideal and real atomic structure of crystals as well as the electronic structures The fundamentals of chemical bonding between atoms are given and the geometric representations in the theory of crystal structure and crystal chemistry as well as

the lattice energy are considered The important classes of crystal structures in inorganic compounds as well as the structures of polymers liquid crystals biological crystals and macromolecules are treated This edition is complemented with recent data on many types of crystal structures e g the structure of fullerenes high temperature superconductors minerals and liquid crystals

Solitons and Condensed Matter Physics A.R. Bishop,T. Schneider,2012-12-06 Nonlinear ideas of a soliton variety have been a unifying influence on the natural sciences for many decades However their universal application in the physics community as a genuine paradigm is very much a current development All of us who have been associated with this recent wave of enthusiasm were impressed with the variety of applications their inevitability once the mental constraint of linear normal modes is removed and above all by the common mathematical structures underpinning applications with quite different and often novel physical manifestations This has certainly been the situation in condensed matter and when during the Paris Lattice Dynamics Conference September 1977 one of us TS first suggested a condensed matter soliton Meeting the idea was strongly encouraged It would provide an opportunity to exhibit the common mathematical problems illuminate the new contexts and thereby focus the subject of nonlinear physics at this embryonic stage of its evolution The original conception was to achieve a balance of mathematicians and physicists such that each would benefit from the other's expertise and outlook In contrast to many soliton Meetings however a deliberate attempt was made to emphasize physics contexts rather than mathematical details

Coherent Inelastic Neutron Scattering in Lattice Dynamics B. Dorner,2006-04-11 Solid Surface Physics ,2006-04-11 **Single-Particle Rotations in Molecular Crystals** W. Press,2006-04-11 Festkörperphysik H. Ibach,H. Lüth,2013-03-13 **Pion-Electroproduction** Edoardo Amaldi,Sergio Fubini,Giuseppe Furlan,2006-04-11 *Collective Ion Acceleration* ,2006-04-11

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